

COUNTRY Soviet Union REPORT NO. 1

TOPIC Compressor Station in Kirsanov

EVALUATION 25X1X PLACE OBTAINED 25X1A

DATE OF CONTENT Attachment W

DATE OBTAINED 21 February 1950

REFERENCES 25X1C

PAGES 2 ENCLOSURES (NO. & TYPE) 1 Blueprint

REMARKS

SOURCE

25X1X

1. Location

The compressor station of Kirsanov (42°43'E/52°38'N), Tambov Oblast, was constructed for the long-distance gas pipe line Saratov-Moscow. It is located about 8 km NE of Kirsanov in a woods, and about 12½ km from the railroad line.

2. Plant Installations

25X1X

in February 1946, some bare structures were completed. They included the pumping station, the electric station, and the compressor installation. At the same time, excavations were started for the construction of a gas filter station. A month later, the construction of the following buildings was begun: The administration building, the water tanks, the water cooling installation, the oil depot, and the water tower. These projects were completed by the end of 1946. The water pumping station on the Vorona River, about 6 km ESE of the compressor station, was built during the summer of 1946 and completed by February 1947. After first being tested in early March 1947, it was put into operation by the end of the same month. For plant layout see Annex.

3. Work Force

Six hundred PWs, 300 Soviet convicts, and an additional 30 Soviet laborers and engineers working on the construction. After the construction was completed the work force was reduced to 300 PWs and 10 Soviet laborers and engineers.

4. Capacity

According to Soviet statements, the pumping capacity of the station will total 25,000 cbm's each 24 hours.

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Attachment H

25X1A [] comment:

a. This is one of the (allegedly) seven compressor stations of the Baratov-Moscow natural gas pipe line. The natural gas resources, the pipe line and some of the compressor stations were previously reported.

b. The detailed sketches of the location and plant layout, with descriptions, make this report especially valuable. []

[] The reported data can be assumed to be correct.

1 Annex: Compressor Station in Kirsanov

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1 / Annex

attachment N

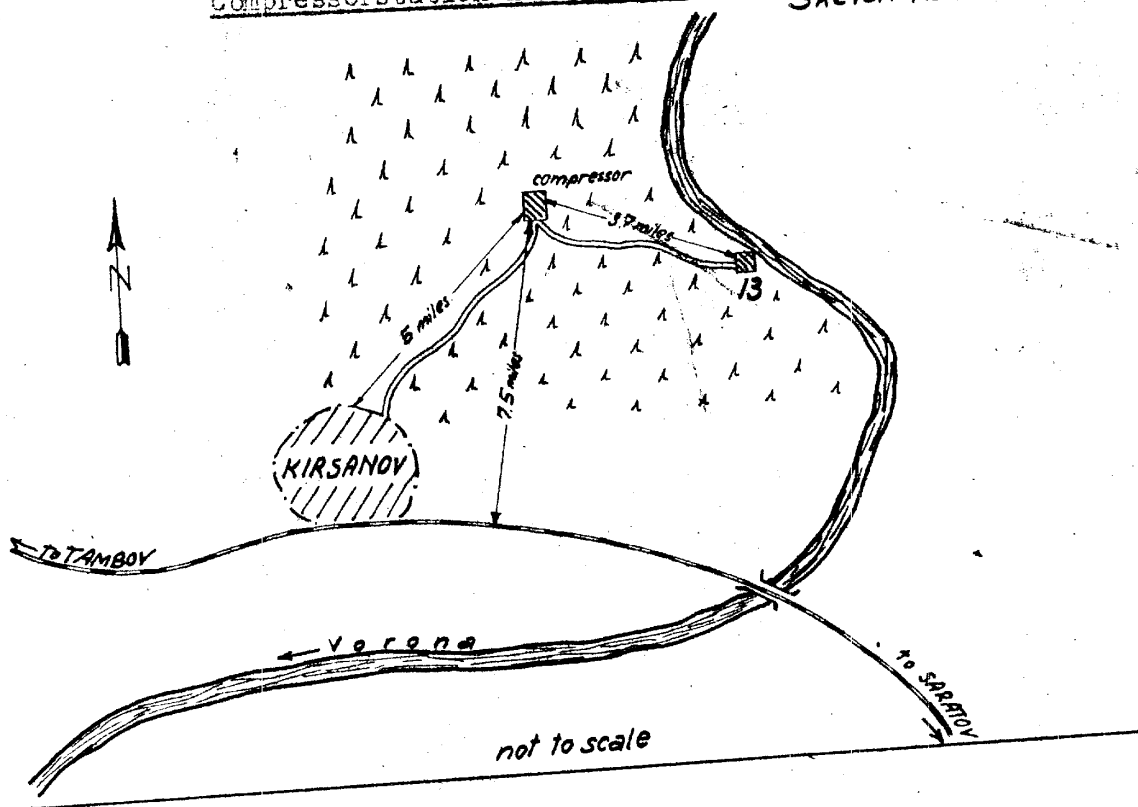
Legend to Annex

- 1 Compressor house, concrete structure, 54 x 27 x 15 meters equipped with four driving motors, each driving three compressors. The foundations of the building are ferro-concrete, and 2.3 meters thick. The high pressure steel pipes have a diameter of about 30 cm and are constructed to withstand a pressure up to 70 atmospheres
- 2 Pumping station, slag-concrete structure, 56 x 27 x 6 meters equipped with cleaning tanks 1.8 meters high and 3.6 meters in diameter and many pumps. The repair shop, located in this building, still lacked essential equipment in April 1947
- 3 Two water tanks, 3.6 meters high and 5.4 meters in diameter. Intended reserve containers for cooling water
- 4 Storage building, slag-stone structure, 37 x 9 x 3 meters
- 5 Gas cleaner (filter), slag-stone structure, 54 x 27 x 9 meters with laboratory in the east part of the building
- 6 Boilerhouse, 27 x 13 x 15 meters, slag-stone structure with two gas-fueled flue boilers, convertible to crude oil fueling.
- 7 Power station, slag-stone structure, 27 x 23 x 15 meters, equipped with two natural gas motors, two make General-Electric generators, and an emergency gasoline fueled generator
- 8 Administration, slag-stone stucco structure, 27 x 13 x 4 meters
- 9 Workshop for plant requirements and repairs, 36 x 13 x 4 meters equipped with a forge, annealing furnace and various machines
- 10 Water cooler, concrete structure, 27 x 9 x 7 meters
- 11 Oil depot and oil cleaning station for lubricants, 23 x 9 x 4 meters, concrete structure connected with the compressor house and power station by pipes .
- 12 Water tower, concrete structure, 5.4 meters in diameter, capacity 40,000 hl (10,550 gallons)
- 13 Pumping station on the Vorona River (see location on sketch), equipped with 10 to 15 water tanks with a total capacity of 100 cu.m. The water is pumped up from about 60 meters into the tanks and from there to the compressor station

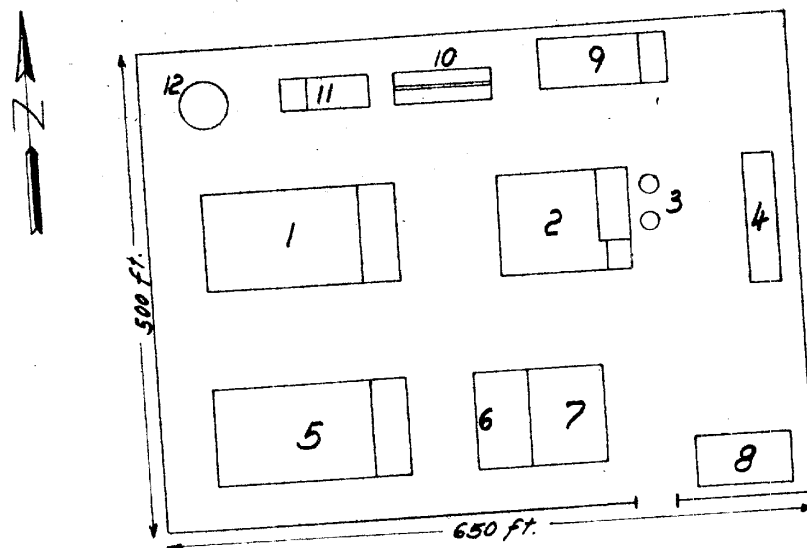
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Compressor station in KIRSANOV

Sketch No. 1



Sketch No. 2



not to scale